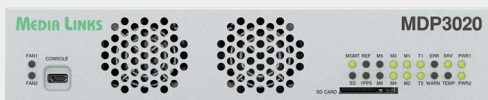


MDP3020 - IP Media Gateway

Compact Half-Rack IP Media Gateway



KEY FACTS:

- Compatible with MD8000 platform
- Follows Standards (including 2022-1/2/6/7, TR-01)
- Simultaneous video, audio, and data services
- Two 1GbE or 10GbE trunk interface
- Dual trunk protection (In/Out band Management)
- All resolutions up to 1080P
- On board provisioning interface
- PTP (IEEE1588-2008) for Advanced Sync functions
- 1 PPS & 10MHz outputs for ext equipment sync
- Using BC over 1GbE interfaces for external equipment interconnection w/ sync requirements
- Supports:
 - 2 x JPEG or uncompressed video streams up to 1080P
 - 4 x DVB-ASI (w/o compression)
 - Hitless Video Protection
 - 1GbE x 2 (Auto Protection)
 - 10GbE x 2 (Hitless Protection) Max 8Gbps

KEY FEATURES:

- Compact and portable – small footprint
- Multi format support, including 3G / HD / DVB-ASI / SD-SDI
- SDI and HDMI output interfaces
- High capacity trunk interface
- Upgradable functionality

APPLICATIONS:

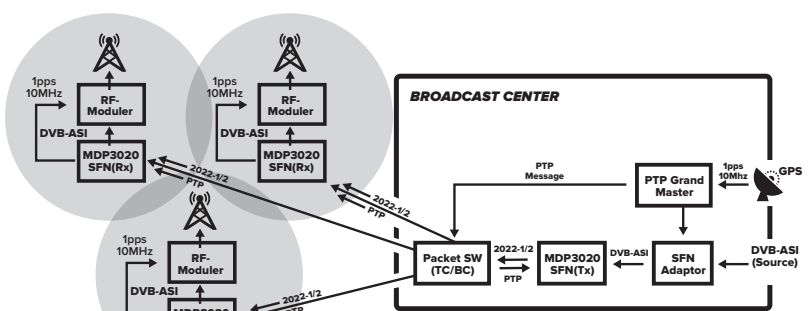
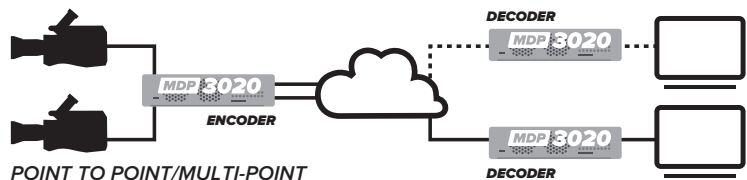
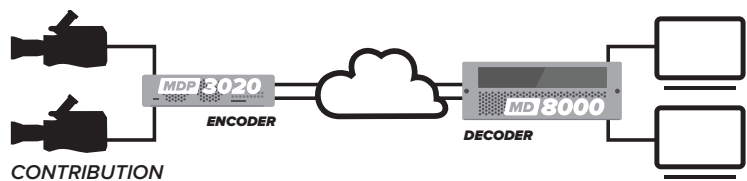
- Local access point to point (HDVT W/ MMC)
- Contribution Quality Broadcast Feeds
- Low cost network edge device
- Remote Production
- Prime distribution networks for TV content
- Transmission equipment for distribution networks w/extended reliability requirements & synchronization
- Intra-studio TV exchange networks

The Media Links MDP3020 is an advanced, high quality standalone edge device, focused on addressing the needs of the broadcast media market. With insatiable demand for live content from all types of environments, the need for a portable, network protected, remotely configurable and cost effective edge device is huge. The MDP3020 can process ever-increasing amounts of media information over IP networks, existing broadcast networks, as well as point-to-point fiber networks.

Further, the MDP3020 is designed primarily for smaller scale remote production, MD8000 edge, TV distribution, and local point-to-point applications where economical IP media transport/conversion is required.

The device can be used in various configurations, either separately or in combination due to its multichannel capability:

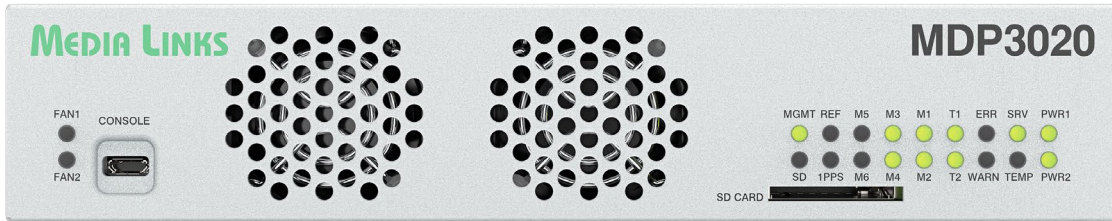
- For Contribution applications, as an edge device (encoder)
- For Distribution applications, as a remote video playout device (decoder)
- For Point-to-Point local video and distribution applications, when used in pairs (encoder to decoder)
- For IP distribution of digital television broadcast signals



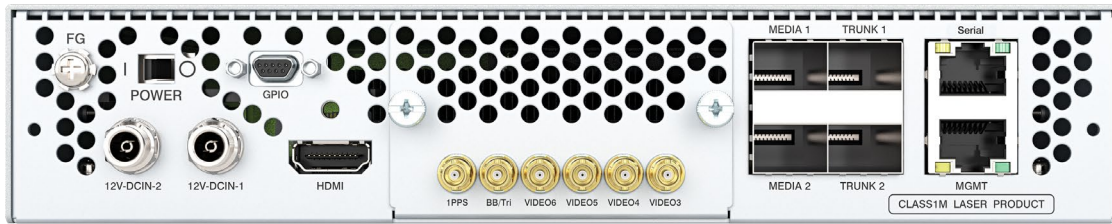
SFN (SINGLE FREQUENCY NETWORK) IP DISTRIBUTION OF DIGITAL TELEVISION SIGNALS.

SPECIFICATIONS & SUPPORTING PARAMETERS*

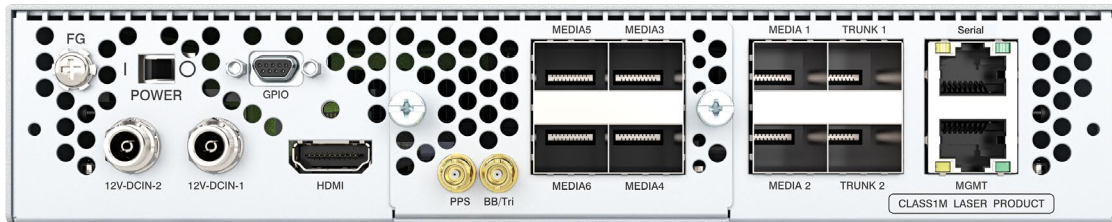
VIDEO	<ul style="list-style-type: none"> • SDI or ASI inputs • JPEG2000 / VSF TR-01 compression • SMPTE 2022-6 or 2022-2 RTP encapsulation • SMPTE 2022-5 or 2022-1 Tx FEC • Internal color bar generator 	MANAGEMENT	<ul style="list-style-type: none"> • Configuration and log message storage on SD memory card • Self-diagnostics • LLDP for auto-discovery • Multi-level secure user access • Front panel status and error LEDs • Rapid profile-based configuration and service provisioning • Operates under VID-I-NMS software control • Built-in ETR 101290 monitoring
AUDIO	<ul style="list-style-type: none"> • 16 audio channels (8 AES) • SDI input signal audio transmission (Transmits audio based on SMPTE302M) • Internal audio test generator (1 KHz tone) • Ancillary data transmission • MAD I using SFP on Media port 1 or 2 	PROTOCOLS	<ul style="list-style-type: none"> • IPv4 • HTTP for web management • SSH (Telnet) command line interface (CLI) • SNMPv2c, including traps • Syslog • PTP (IEEE 1588-2008) • NTP and Time Setting • Ping, Traceroute
TRANSPORT	<ul style="list-style-type: none"> • MPEG2-TS streams transmission • SDI Standard (SMPTE 259M/292M/424M) • SDI over IP Standard (SMPTE 2022-5/6) • Compression/Decompression up to 2X video streams by using J2K • Transmission up to 2X uncompressed SDI • Transmission up to 2X SDI (SMPTE 259M/292M/494M) using IP (SMPTE 2022-5/6) • Transmission up to 4X DVB-ASI/T2-MI streams using IP (SMPTE 2022-1/2) • Universal outputting of DVB-ASI/T2-MI streams over ASI and/or 1GbE data ports • DVB-ASI/T2-MI transmission throughput up to 200Mbps/s per interface • Hitless protection conforming to SMPTE 2022-7 • BC PTP for Data port • Alignment (delay difference compensation) for media streams by using PTP for internal sync 	MD8000 COMPATIBILITY	<ul style="list-style-type: none"> • ST-TX-J2K video input card (video) • ST-RX-J2K video output card (video) • VIF-2022 support – coming soon • 10GbE Hitless card (data) • 1GbE Two Port Line card (data) • 1GbE Eight Port Line card (data) • MDX48X6C and MDX48X6Q
INTERFACES	<ul style="list-style-type: none"> • Available with either electric (BNC, up to 3Gbps) or optical • 2 x video input/output ports (Max 2 total) • Dual 10Gbps trunks • Dual 1G/10G Data Ports (8Gbps Total throughput using Hitless data) • Built-in HDMI output port, supports HDMI 2.0/ HDCP 2.2 • Front panel micro-USB serial management port @ 115,200bps • RJ-45 Ethernet console port; RJ-45 PTP timing port • ASI input/output direction changeable by firmware • 1PPS & 10MHz outputs (hdBNC) • BC PTP (IEEE 1588-2008) • Separated ASI input/output monitoring interfaces (hdBNC) 	PHYSICAL	<ul style="list-style-type: none"> • Form Factor – 1RU, Half-rack width; 2 units per standard 19" rack width • Dimensions: • 215 mm (W) x 42 mm (H) x 300 mm (D) • 8.46" (W) x 1.65" (H) x 11.81" (D) • Weight: 2.7Kg / 5.95lbs • Power Consumption: 108VA or less • Supports dual power supplies for redundancy
		REGULATORY	<ul style="list-style-type: none"> • CFR 47 FCC part 15 Subpart B Class A (USA) • EN 55032:2012/AC:2013 Class A ITE (EU) • NEBS Level 1 • ICES-003 Issue4 Class A (Canada) • UL 60950-1-07, Second edition • CSA 60950-1-07, Second edition • IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am2:2013 • RoHS compliant
		APPLICATIONS	<ul style="list-style-type: none"> • SDI/IP, IP/IP Media Conversions • Contribution Quality Broadcast Feeds • Studio-to-Studio Media Exchange • Remote Production and OB Van Environment • SFN (Single Frequency Network) IP distribution of digital television signals



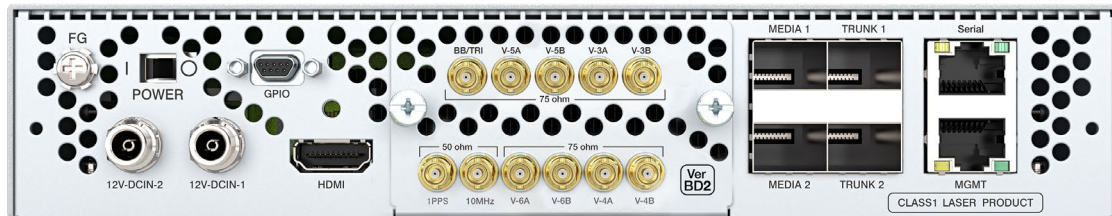
MDP3020 Front View



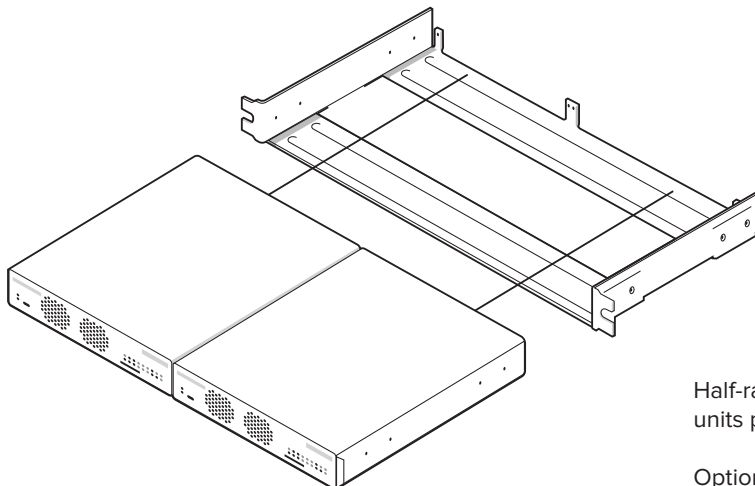
MDP3020 Rear View with BNC



MDP3020 Rear View with SFP Module



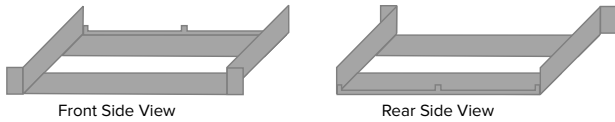
MDP3020 Rear View with SFN Module



Half-rack form factor, two MDP3020 units per 1RU 19" rack.

Optional mounting shelf shown.

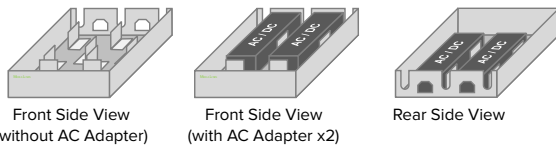
MDP3020 Rack Mount Tray



Front Side View

Rear Side View

MDP3020 AC Adapter Holder



Front Side View
(without AC Adapter)

Front Side View
(with AC Adapter x2)

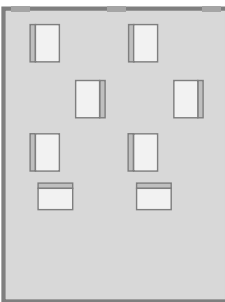
Rear Side View



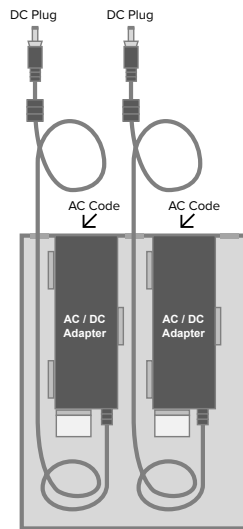
Front View



Rear View



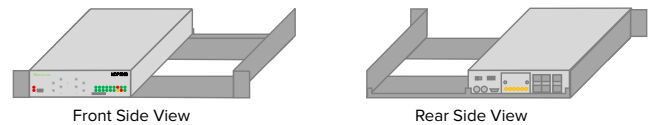
Top View
(without AC Adaptor)



Top View
(with AC Adaptor x2)

MDP3020 Rack Mount Tray Use Cases

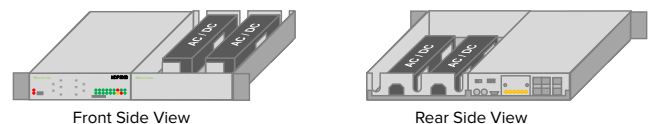
Use Case 1 – 1 Unit per 1RU



Front Side View

Rear Side View

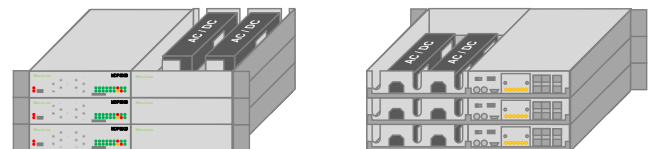
Use Case 2 – 1 Unit per 1RU with AC Adapter Holder



Front Side View

Rear Side View

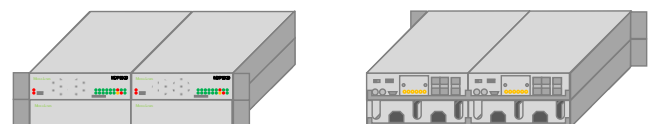
Use Case 3 – 1 Unit per 1RU with AC Adapter Holder 3x



Front Side View

Rear Side View

Use Case 4 – 2 Unit per 1RU with AC Adapter Holder 2x



Front Side View

Rear Side View

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